

Iowa Department of Natural Resources
Wastewater Section
Construction Permit Application
SCHEDULE R2A, Low Rate Land Application of Sludge, Part I

DATE PREPARED	PROJECT IDENTITY	DNR USE
DATE REVISED		PROJECT NO.
		PERMIT NO.

1. How will this sludge be stabilized? _____

2. Will this sludge be made available to persons for their own use or to persons for sale or distribution to others for residential type uses or for application to land engaged in growing food crops which may be consumed raw or made available to the public in a raw or unprocessed form? Yes ☐ No ☐ If yes, provide by attachment information detailing type of food crop(s) expected along with any other pertinent information concerning the crop's processing and intended use.

3.
 - a. Has the wastewater influent to the treatment plant been analyzed to determine if any industrial wastewater sources exist which may contribute significant quantities of potentially hazardous chemicals or other toxic substances to the treatment plant? Yes ☐ No ☐ Attach a copy of the wastewater analysis.

 - b. Provide the concentrations of the sludge constituents listed below; also, list any other potentially hazardous chemicals or toxic substances that are found in the sludge. Do any concentrations exceed the permissible levels?

<u>Constituent</u>	<u>Actual Level*</u>	<u>Permissible Level *</u>	<u>Excessive?</u>	
			Yes	No
Total nitrogen (N total)	_____ ≤	10%	<input type="checkbox"/>	<input type="checkbox"/>
Total phosphorus (P total)	_____ ≤	6.9%	<input type="checkbox"/>	<input type="checkbox"/>
Total potassium (K total)	_____ ≤	0.9%	<input type="checkbox"/>	<input type="checkbox"/>
Arsenic (As)	_____ ≤	50 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Cadmium (Cd)	_____ ≤	15 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Chromium (Cr)	_____ ≤	1,000 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Copper (Cu)	_____ ≤	1,000 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Lead (Pb)	_____ ≤	1,000 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Mercury (Hg)	_____ ≤	10 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Nickel (Ni)	_____ ≤	200 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Zinc (Zn)	_____ ≤	2,000 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	_____ ≤	(Level of toxicity to		
_____	_____ ≤	be determined by the		
_____	_____ ≤	director of DNR)		

*Levels specified are on a dry weight basis

- c. Name of laboratory that performed wastewater and sludge analyses _____
 - Location of laboratory _____
 - Is laboratory approved by the State Hygienic Laboratory? Yes ☐ No ☐
 - Were test procedures conducted in accordance with acceptable methods as required under subrule 567—121.3(1)d(2) of the Iowa Administrative Code? Yes ☐ No ☐

4. By attachment, provide a copy of the long-range program for low rate land application of sludge. Attached program must address the points as outlined in subrule 567—121.3(1)d(3) of the Iowa Administrative Code.

5. Is or will any additional sludge storage, handling or disposal facilities be required? Yes ☐ No ☐
If yes, what necessary actions are being undertaken to fill the additional needs? _____

6. Will records of sample analysis and sludge disposal operations be maintained? Yes ☐ No ☐